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# 1.1 - Introduction

Looking for a way to connect your serial devices to a USB port on your USB equipped Macintosh computer? The **Keyspan Mini Port Replicator** is a simple, inexpensive, and reliable way to make this connection.

The Adapter plugs into any USB port on your Mac. It provides one DB9 serial port which can be used to connect to your Palm Organizer, PSION, Wacom tablet, and many other serial devices.

Up to 8 Keyspan Mini Port Replicators may be installed on one CPU if desired.

## Requirements

The **Keyspan Mini Port Replicator Software for Mac OS** requires the following:

- Macintosh:
  - At least one available USB port
  - Mac OS 8.6 - 9.x

## Contents

The **Keyspan Mini Port Replicator** package (part# UPR-112) includes:

- Keyspan Mini Port Replicator (UPSH-112)
- Mac and Windows compatible CD with software and user manual

**Note:** This documentation applies to Keyspan's Mini Port Replicator Software for Mac OS 8.6 - 9.x and covers the features and use of this software on that platform. For Mac OS X information and instructions, please read the **Keyspan USB Serial Software for Mac OS X User Manual** or visit Keyspan's web page <<http://www.keyspan.com>>

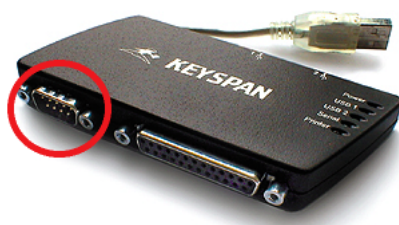


## 2.1 - Capabilities

The Keyspan Mini Port Replicator is three devices in one. It contains **one male DB9 serial port**, **one female DB25 printer port**, and a **two port USB hub**.

### Keyspan Mini Port Replicator - Serial Port

Keyspan Mini Port Replicator  
**Serial Port**



Keyspan Mini Port Replicator  
**Port Icon And Name**



Printer Port USB

The DB9 serial port on the Mini Port Replicator supports **RS-232** asynchronous communications at **data rates up to 115.2 Kbps**. Please read our [Compatibility List for Mac OS](#) for a list of serial devices that have been tested with the Keyspan Mini Port Replicator

The **male DB9 serial port** on the Keyspan Adapter is seen as a serial port by Mac OS. The Keyspan serial port is interfaced via the "*CommToolBox*" API and is then available to any program that accesses serial ports via this API. For programs that don't use the *CommToolBox* to access serial ports, the Keyspan adapter can emulate the **PRINTER** port as found on older Macintosh computers.

Note: You can only have one **PRINTER** port on any given computer. In order for the Keyspan adapter to emulate either of these ports, the **PRINTER** port must not be 'in use' or registered by other software or hardware. For example, **PRINTER** port emulation is not available on a Mac that already has a **PRINTER** port builtin (any pre-USB Mac). **MODEM** port emulation is not available on any Mac that has an internal modem as internal modem typically emulates the **MODEM** port (**PRINTER** port emulation is typically available on these Macs). **Printer Port** emulation can be turned ON by using the [Keyspan Serial Assistant's Advanced Setting's](#) screen.

On Mac OS, **Port 1** on the Keyspan Mini Port Replicator is named "**P#1UPSH112xx**". This port is accessible by selecting the "**P#1UPSH112xx**" port name or the MPR icon in your serial device's software. This port is published via the *CommToolBox* and can be accessed by



## Keyspan:Mini Port Replicator for Mac OS-v2.6 User Manual

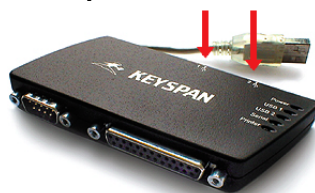
*CommToolBox Savvy* software.

On Macs that do not have built-in serial ports (ie 'Blue and White' G3s, iMacs, iBooks, G4s, etc...), **Port 1** can emulate the **PRINTER** port (as found on older Macintosh computers) for serial devices that are *not CommToolBox Savvy* and can't access the "**P#1UPSH112xx**" port. Printer Port emulation can be turned ON by using the [Keyspan Serial Assistant's](#) Advanced Setting's screen. Once you've emulated the Printer port, Port 1 will be accessible by selecting the 'PRINTER' port icon or 'Printer Port USB' port name in your serial device's software. Printer port emulation is turned OFF by default.

**Note:** If you install more than one Keyspan Mini Port Replicators on your Mac, Port 1 on subsequent adapters will have different names (please contact Keyspan for details).

### Keyspan Mini Port Replicator - 2 port USB Hub

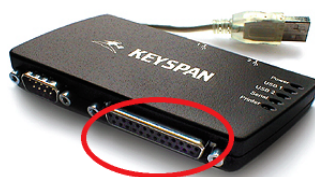
Keyspan Mini Port Replicator  
**2 port USB Hub**



The Keyspan Mini Port Replicator also includes a **2 port USB hub**. This hub supports USB 1.1 devices and functions as a bus-powered USB hub.

### Keyspan Mini Port Replicator - Printer Port

Keyspan Mini Port Replicator  
**DB25 Printer Port**



The DB25 printer port on the Mini Port Replicator is seen as a 'USB Printer Class Device.' Certain printers (such as Epson) support 'USB Printer Class Devices' so that you can connect a parallel printer to a Mac. Please check with Keyspan for details.



## 3.1 - Installation Instructions

### Installing the Mini Port Replicator Software for Mac OS

**Note:** These instructions apply to installing the Keyspan Mini Port Replicator on Mac OS 8.6 through 9.x. If you are installing this software on Mac OS X via CLASSIC, please read the **Keyspan USB Serial Software for Mac OS X User Manual** or visit Keyspan's web page <<http://www.keyspan.com>> before proceeding.

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#### Step 1 - Insert the Keyspan Serial Adapter CD-ROM

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Turn your computer ON. When your computer starts up, place the **Keyspan Mini Port Replicator** CD into the CD-ROM drive. When the CD icon appears on your desktop, double click on this icon to display its contents.

Locate the Keyspan Mac OS 8.6 - 9.x folder and then locate the Keyspan **Installer** for Mac OS.

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#### Step 2 - Run the Keyspan USB Serial Software for Mac OS Installer

---

If the Keyspan Adapter is connected to your computer, **disconnect** it now.

Run the Keyspan installer for Mac OS by double clicking the **Install Keyspan MPR** icon. This will start the installer. Once the installer is running, follow the instructions on screen.

The installer will install the following items:

- " KeyspanUSBLoader" (in the *Extensions* folder)
- "KeyspanUPSH112Drvr" (in the *Extensions* folder)
- "[Keyspan Serial Assistant](#)" (in the *Control Panels* folder)
- "Keyspan Manager" (in the *System Folder* folder)

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#### Step 3 - Software Installation Complete!

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Now that you have installed the Keyspan Mini Port Replicator software, you are ready to install the Keyspan Mini Port Replicator hardware. Please proceed to the **installing the Keyspan Mini Port Replicator Hardware** instructions.



### Installing the Keyspan Mini Port Replicator Hardware

The following hardware installation instructions provide a basic overview on installing the **Keyspan Mini Port Replicator** in a USB port. For detailed instructions on how to connect USB devices your specific computer, please refer to the USB Device Install section in your computer's user's manual.

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#### **Step 4** - Connect the USB cable to the Adapter (if necessary)

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If your Keyspan adapter does not have an attached USB cable, attach the included USB cable into the Keyspan adapter's USB port.

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#### **Step 5** - Connect the Adapter to your USB port

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Attach the Adapter to your computer by connecting the Adapter's USB cable into any built-in USB port on your computer or USB Hub. It is not necessary to turn off your computer when attaching the Adapter.

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#### **Step 6** - Hardware Installation Complete!

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Your Keyspan Mini Port Replicator is ready for use now that you have installed hardware and software.

Please proceed to the [Configuring Your Serial Device](#) section in this manual for instructions on what to do next.



# 4.1 - Configuring Your Serial Device

Prior to using your serial device (modem,UPS, etc.) with the Keyspan Mini Port Replicator, you must:

1. connect your serial device (*hardware*) to the Keyspan port
2. configure your serial device's *software* to use the Keyspan port

The following instructions provide a general overview of this process however we do provide specific configuration instructions for certain serial devices. For a list of these examples, please read the [Configuration Examples for Mac OS](#) Appendix in this manual.

## Connecting Your Serial Device (Hardware)

If your Keyspan adapter is not connected, please do so NOW.

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### Step 1 - Connect Your Serial Device To The Keyspan Adapter

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Attach your serial device's (ie Palm cradle, GPS, cell phone) serial cable to the serial port on your Keyspan Mini Port Replicator.

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### Step 2 - Determine Which Keyspan Port Your Serial Device Is Connected To

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If you have a Keyspan product that has more than one serial port, please note which Keyspan serial port your serial device is connected to (the serial port on the Keyspan product, not your USB ports on your computer or USB hub). This information will become useful as we start Configuring Your Serial Device's Software.

## Configuring Your Serial Device's Software

The following configuration instructions provide a basic overview of how to configure your software to use your Keyspan serial port(s). For specific instructions on how to operate your serial device, please refer to your serial device's user's manual for detailed instructions...

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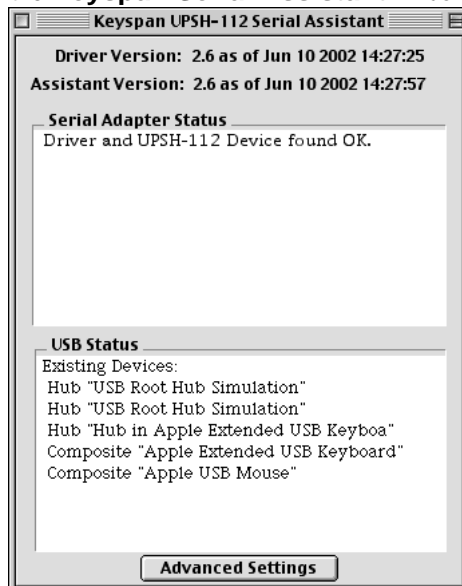
### Step 3 - Check the Keyspan Serial Assistant

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Now that your serial device is connected to the Keyspan adapter, you should check to see if the Keyspan serial port is installed correctly.

To do this, open the [Keyspan Serial Assistant](#) (located in Control Panels). When you open the [Keyspan Serial Assistant](#), you will see the following window:

the **Keyspan Serial Assistant** window



If your Keyspan hardware and software are installed correctly, the '**Serial Adapter Status**' text box will report 'Driver and UPSH-112 Device found OK' or '...Renumerating...Done'.

If you see either of these messages, proceed to **Step 4**. If you do not receive either of these messages, proceed [Problem Solving](#) section in this manual.

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### Step 4 - Determine Where To Select/Configure The Keyspan Serial Port(s)

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Prior to using your serial device with a Keyspan serial port, you must first tell that serial device's **software** which serial port your serial device **hardware** is connected to.

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For example, if you have a Palm, you will have to tell the Palm Desktop **software** to look for your Palm handheld (**hardware**) on a Keyspan serial port. By doing this, you establish communication between your serial device's **software** (ie the Palm Desktop software) and your serial device hardware (the Palm handheld unit).

Most serial devices will have software that will allow you to select which serial port the device is connected to. Depending on your serial device and its software, you may have to configure: a Control Panel (ie modems accessing ISPs), an application (ie UPSes), or some combination of these (ie modems accessing terminals using Zterm).

Please refer to your serial devices documentation on which method your serial device uses and how to access that software's serial port "configuration" screen.

Once you've determined where to select or configure your serial device's software's serial port settings, please proceed to **Step 5**.

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### **Step 5** - Determine Which Serial Port To Select In Your Serial Device's Software

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When you've found the port selection screen in your serial device's software, you may be presented with a list of serial port names, a list of icons, or some combination of both.

At this point, you have to select the name or icon of the Keyspan serial adapter you are connecting to. Please note that you can see the port name and icon port name of your Keyspan Serial Adapter in the [Capabilities](#) section in this manual.

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### **Step 6** - Use Your Serial Device

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Once you've configured your serial software to use the Keyspan serial port, you're ready to start using your serial device under Mac OS.



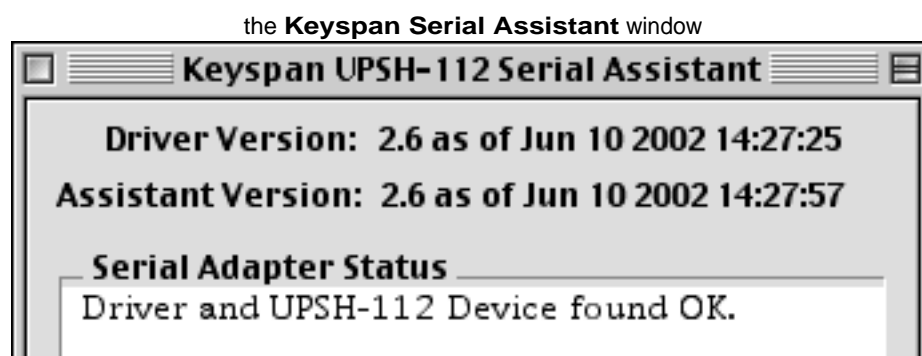
## 5.1 - Keyspan Serial Assistant

Besides the required drivers, the Keyspan Mini Port Replicator software installer installs an application called **Keyspan Serial Assistant**. This application is used to:

- Determine the status of the adapter software and hardware
- Assist in problem solving

### Launching the Keyspan Serial Assistant

To launch the Assistant, double click the "Keyspan Serial Assistant" icon in your **Control Panels** folder. This will open the [Keyspan Serial Assistant](#) window.



The Keyspan Serial Assistant will display any Keyspan Mini Port Replicators connected to your computer. If your Keyspan adapter hardware and software are installed correctly you will see 'Driver and UPSH-112 Device found OK' or '...Renumerating...Done' in the **Serial Adapter Status** text box. If you do not receive either of these messages, proceed [Problem Solving](#) section in this manual.

### Explanation of Assistant Features

The following is a description of all the relevant text boxes and menus found in the Keyspan Serial Assistant. You can also obtain this information by selecting '**Show Balloons**' in the Help menu and moving the cursor over any item in the Assistant.

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### Keyspan Serial Assistant Window

the **Driver and Assistant Version** items

**Driver Version: 2.6 as of Jun 10 2002 14:27:25**

**Assistant Version: 2.6 as of Jun 10 2002 14:27:57**

The **Driver Version** and **Assistant Version** items show the version numbers of the *installed* Keyspan UPSH-112 driver and Assistant respectively. The two version numbers should always match. If these numbers do not match, you should reinstall the Keyspan software.

the **Serial Adapter Status** text box

#### Serial Adapter Status

Driver and UPSH-112 Device found OK.

The **Serial Adapter Status** text box displays the status of your Keyspan adapter hardware and software. It detects if the Keyspan driver (*software*) is installed (or found) and whether or not a Keyspan adapter (*hardware*) is connected.

If your Keyspan adapter hardware and software are installed correctly you will see 'Driver and UPSH-112 Device found OK' or '...Renumerating...Done' in the **Serial Adapter Status** text box. If you do not receive either of these messages, proceed [Problem Solving](#) section in this manual.

the **USB Status** text box

#### USB Status

Existing Devices:

The **USB Status** text box shows what USB devices (ie hubs, keyboards, mice, etc.) are connected to your USB bus. This text box will not display serial devices connected to your Keyspan adapter.

the **Advanced Settings** button

**Advanced Settings**

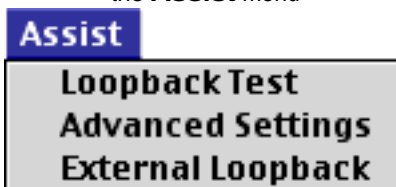
The **Advanced Settings** button will access the Keyspan adapter's advance configuration options. Once you click this button, you will open the [Keyspan Manager](#) window.

You should only access this option if your serial device requires that you turn on an advanced option on or if you are sure of what you are doing. In most cases, you will not need to change any of the adapter's advanced options.



### The Assist Menu

the **Assist** menu



The Keyspan Serial Assistant's **Assist** menu is located in the Menu bar and provides access to the following command(s):

- The **Loopback Test** command performs an 'internal loopback test.' This tests the ability of the Adapter to **send** data. Since this test **does not test the ability to receive data**. Results of this test listed in the **Serial Adapter Status** text box. Please note that this test cannot take place when the Keyspan serial port is in use by another application.

**Note: The Loopback Test is not available on the Keyspan Mini Port Replicator.**

- The **Advanced Settings** button will access the Keyspan adapter's advance configuration options. Once you click this button, you will open the [Keyspan Manager](#) window.
- The **External Loopback** command tests the Adapter's ability to **send and receive** data. This test requires an external 'loopback connector'. For details about external loop back connectors, please read the **External Loopback Connector** information in [Serial Port Pin Outs](#) appendix in this manual.

### 5.1.a - Keyspan Manager

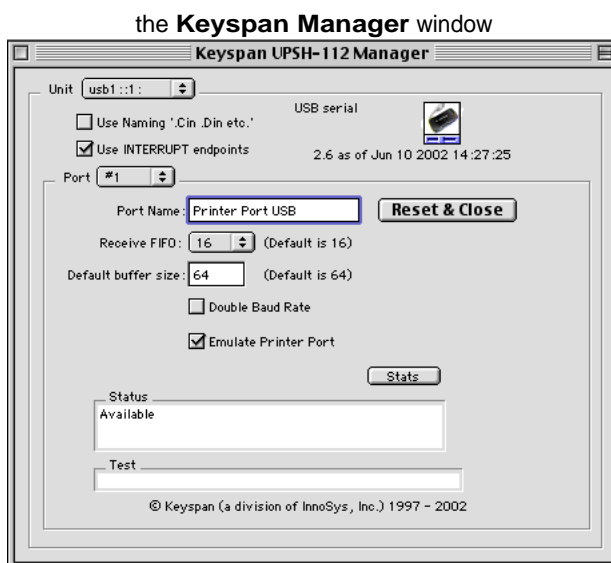
The **Keyspan Manager** window allows you to modify characteristics of your Keyspan serial port(s). You should only change settings in this window if you are sure that you specifically need to change them.

To open the **Keyspan Manager**, click the "Advanced Settings" button in the [Keyspan Serial Assistant](#) control panel (located in your **Control Panels** folder (located in your hard drive's **System Folder**)). This will open the **Keyspan Manager** window.

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### Explanation of Manager Features

The following is a description of all the relevant text boxes and menus found in the Keyspan Manager. You can also obtain this information by selecting '**Show Balloons**' in the Help menu and moving the cursor over any item in the Manager.

### Keyspan Manager Window

Unit

The **Unit** popup menu is used to select which **Keyspan Adapter** you would like to configure. The available items in this menu will correspond to the physical location of any Mini Port Replicator (or adapters) that has been installed in your computer.

☐ Use Naming '.Cin .Din etc.'

The **Use Naming '.Cin .Din** check box allows use of an alternative port naming conventions. This option is provided for compatibility with certain applications which adopted this naming convention. Please contact the manufacturer of your serial to see if you require this setting to be enabled. The default state is unchecked. A change in this setting will take effect upon restart of your computer or until you disconnect and reconnect the adapter.

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☐ Use INTERRUPT endpoints

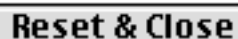
The **Use INTERRUPT endpoints** check box is used to change how the Keyspan adapter communicates with your computer's USB bus. When this option is turned on, the Keyspan adapter will use the INTERRUPT endpoints to communicate with your computer's USB bus. When this option is turned off, the Keyspan adapter will use the BULK method of communicating with your computer's USB bus.

Port 

The **Port** popup menu allows you to select the Keyspan serial port that you want to configure. Please note that each port maintains its own separate settings. As a result you must configure each port individually.

Port Name: 

The **Port Name** text box allows you to change the name of the selected port. Changes will take effect upon reboot. Please note that you cannot change the port name on ports that use the **Emulate Modem/Printer Port** check box.



The **Reset & Close** button can be used to recover use of a serial port that is open and cannot be closed by the application that opened it. When you click on this button, Keyspan Manager will send calls to the port which should reset the port and close it. This will not prove effective in every circumstance.

Receive FIFO:  (Default is 16)

The **Receive FIFO** popup menu allows you to configure the number of characters which are stored in the card's "First In First Out" input buffer ("FIFO") before they are made available to the computer. The default value of this parameter is "16". The **Receive FIFO** improves the reliability of data transfer at high speeds. You can turn this option OFF for performance reasons however this is not necessary in most cases.

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Default buffer size:  (Default is 64)

The **Default buffer size** text box allows to set a different buffer size to be established for the specified Adapter port. This change takes effect upon restart of your computer. Since most applications which use serial ports supply their own buffer, this setting often has no benefit.

☐ Double Baud Rate

The **Double Baud Rate** check box will allow certain older applications to use higher data rates than were foreseen when the application was written. Some applications, for example, may not provide the opportunity to select a baud rate above 57.6 Kbps. When this check box is checked, the port will use a baud rate which is exactly double the rate specified in the application software. Changes will take effect upon restart of your computer.

**WARNING: DO NOT enable this check box if you do not need to. Enabling this check box in software that supports the baud rates higher than 57.6 will cause that software to operate incorrectly.**

☐ Emulate Printer Port

The **Emulate Modem/Printer Port** check box allows your Keyspan adapter to emulate the "Printer Port" or "Modem Port" as found on older Macintosh computers. This allows software that is not CommToolBox Savvy to use a port on the Keyspan adapter.

**Note: This option is only available on Macs that do not have a built-in Modem or Printer (ie "Blue and White" G3s, iMacs, iBooks, etc.). On Keyspan Adapters that only have ONE serial port, you can only emulate the **Printer** port.**

Stats

The **Stats** button will cause a Port Statistics window to appear. The Stats window can be used to confirm that a baud rate for the selected port is set at your intended value. It may also be used to document the existence of communications errors.

Status:

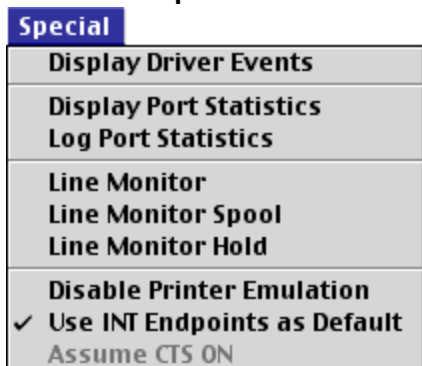
The **Status** text box displays current status of the selected port. Information in this text box is dynamically updated.

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### The Special Menu

the **Special** menu



The Keyspan Manager's **Special** menu is located in the Menu bar and provides access to the following command(s):

#### Display Driver Events

The **Display Driver Events** command copies the Keyspan Adapter's serial driver's internal event buffer into the Keyspan Manager's event log and displays it in a window. This capability may be useful when troubleshooting a communications problem with the help of Keyspan staff.

#### Display Port Statistics

The **Display Port Statistics** command functions the same as the **Stats** button in the Keyspan Manager's window.

#### Log Port Statistics

The **Log Port Statistics** command copies port statistics to the Keyspan Manager's event log, but does not display the "Stats" window. Adding statistical data to the event log enriches the information provided to Keyspan staff during troubleshooting.

#### ✓ Line Monitor

The **Line Monitor** option will display a Line Monitor window for port selected in the **Port** popup menu. The Line Monitor will display all data and all modem control state changes sent to and from the Keyspan Adapter.





### ✓ Line Monitor Spool

The **Line Monitor Spool** creates a file where information from the Keyspan Manager's Line Monitor will be stored. You can turn this option on or off.

### ✓ Line Monitor Hold

The **Line Monitor Hold** command will stop the Keyspan Manager from spooling the Line Monitor data. Deselecting this option will resume the collection of Line Monitor data.

### ✓ Disable Printer Emulation

The **Disable Printer Emulation** command will disable Printer port emulation on ALL Keyspan Mini Port Replicators connected to your computer. Deselecting this option will allow Printer port emulation on any Keyspan Mini Port Replicator connected to your computer.

### ✓ Use INT Endpoints as Default

The **USE INT Endpoints as Default** command will make ALL Keyspan Mini Port Replicators connected to your computer default to use **INTERRUPT endpoints** (for better performance at high baud rates).

### ✓ Assume CTS ON

The **Assume CTS ON** command will force ALL Keyspan Adapters connected to your computer to assume that the CTS signal is ON (or HIGH) when CTS is not specified by your serial device's software or serial cable.

**Note:** This option is **DISABLED** on the Keyspan High Speed USB Serial Adapter and Keyspan Mini Port Replicator.



# 6.1 - Problem Solving

If you are having problems with your **Keyspan Mini Port Replicator in Mac OS**, please read the following instructions to assist you in troubleshooting your Keyspan adapter.

## Hardware Troubleshooting

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### Step 1 - Use the Keyspan Serial Assistant

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Launch the [Keyspan Serial Assistant](#) application. When you open the [Keyspan Serial Assistant](#) application, the '**Serial Adapter Status**' text box will report 'Driver and UPSH-112 Device found OK' or '...Renumerating...Done'. These messages indicate the Keyspan adapter software and hardware are installed properly.

If you do not receive either of these messages, please contact [Keyspan Tech Support](#) for further assistance.

Otherwise, skip ahead to **Step 2**.

## Software/Serial Device Troubleshooting

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### Step 2 - Check The Physical Connections

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Make certain that your serial device is powered on and is properly connected to the Keyspan Serial Adapter.

Proceed to **Step 3** ...

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### Step 3 - Check Your Serial Device's Software Configuration

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Check to see if your serial device's software is configured to use the Keyspan port . Please refer to your serial device's documentation for instructions on how to select/switch/configure a serial port in that software.

Once you've found your software port configuration screen, does it display the Keyspan Mini Port Replicator port name(s)?



## Keyspan:Mini Port Replicator for Mac OS-v2.6 User Manual

If you **do not see** the Keyspan port name(s), please contact [Keyspan Tech Support](#) for further assistance.

If you see the Keyspan port name(s) and have properly selected the Keyspan port that your serial device is connected to and are still having problems, please continue to **Step 4**.

---

### Step 4 - Use Your Serial Device

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If you have followed all of the above steps and are still having problems with your Keyspan Mini Port Replicator, contact [Keyspan Tech Support](#) for further assistance.

### When You Need More Help...

The Keyspan web site <http://www.keyspan.com> is your best source for technical support information. The web site includes technical notes, reference manual updates, and answers to frequently asked questions.

You may also contact our technical support department directly via email, phone, or fax. Please see the [Support Information](#) section in this manual for more details.



## 7.1 - Appendices -

- [Frequently Asked Questions \(FAQs\)](#)  
Frequently Asked Questions
- [Compatibility List for Mac OS](#)  
List of serial devices that have been tested with Keyspan serial adapters...
- [Configuration Examples for Mac OS](#)  
Instructions on configuring select serial devices to use Keyspan serial ports
- [Serial Port Pin Outs](#)  
Serial Port Pin Out and Loopback Test Information
- [LED Behavior](#)  
Description of the LED Behavior on your Keyspan Adapter
- [Notices](#)  
FCC, CE, VCCI, Copyright and Trademark Information
- [Keyspan Warranty Information](#)  
Keyspan Warranty Information
- [Support Information](#)  
Information about obtaining technical support



## 7.1.a - Frequently Asked Questions (FAQs)

The following is a list of Frequently Asked Questions (FAQs) about the Keyspan Mini Port Replicator for Mac OS. Keyspan frequently updates and adds the questions and answers list below. For the latest list, please visit the our web site at: <http://www.keyspan.com>

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### Frequently Asked Question List

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**Question:**

**How do I configure my serial device to recognize the Keyspan Mini Port Replicator?**

**Answer:**

To configure any serial device to use a serial port on any Keyspan USB Serial Adapter, you must:

1. Locate the software that controls your serial device.
2. Access that software's port or connection configuration screen/dialog/menu/etc.
3. Select the Keyspan port that your device is connected to in port or connection configuration screen/dialog/menu/etc. for that device

Depending on what type of serial device you have, you may have to configure a control panel, an application, a plug-in, or an icon in the Chooser. Keyspan provides documentation on how to configure many popular serial devices in the [Configuration Examples for Mac OS](#) appendix in this manual.

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**Question:**

**Can I connect my Keyspan USB device to a USB hub?**

**Answer:**

Yes, any Keyspan USB device can be connected to a USB hub. However, there are some USB hubs that cannot fully support some USB devices. If you are having problems with a Keyspan USB device that is connected to a USB hub, please connect the Keyspan USB device to a built-in USB



## Keyspan:Mini Port Replicator for Mac OS-v2.6 User Manual

port on your computer. If this solves the problem, then this may be an issue with your USB hub. If you are encountering this problem or something similar to it, please contact [Keyspan Tech Support](#) for further instructions.

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## 7.1.b - Compatibility List for Mac OS

The following is a list of serial devices that have been tested with various Keyspan Serial Products on Mac OS (8.6 - 9.x). This list is intended to be used as reference guide and not as complete compatibility list. We are constantly testing products and adding them to this list.

For the latest version of this list, please visit our web site at: <http://www.keyspan.com>

For the compatibility list for other operating system (ie Mac OS X, Windows, etc.), please refer to the user manual for that platform or visit our web site at: <http://www.keyspan.com>

### Legend

- = See **Notes** section at end of list
- √ = Configuration Guide Available
- Δ = Not Tested
- \* = Requires emulated **MODEM** or **PRINTER** port
- Y = Compatible
- N = Not Compatible
- ! = See Guide for Information
- ∅ = not compatible with Operating System

### Compatibility List for Mac OS (8.6 - 9.x)

<u>Product</u>	<u>Guide</u>	<u>USA19Qi</u> <u>USA19Q</u> <u>USA19</u>	<u>UPSH112</u> <u>USA19QW</u> <u>USA19W</u>	<u>USA49W</u>
<b><i>Graphic Tablets</i></b>				
Wacom Tablets (serial)		Y	Y	Y
<b><i>PDA's and PDA Software</i></b>				
Palm	√	Y	Y	Y
<b><i>Digital Cameras and Digital Camera Software</i></b>				
CamerAid		N	Y	Y
Olympus Digital Cameras (serial)		N	Y	Y

This User Manual applies to the Keyspan Mini Port Replicator Software for **Mac OS**.  
(rev 02jun20JA)



## Keyspan:Mini Port Replicator for Mac OS-v2.6 User Manual

### ***Modems and Modem Software***

Remote Access software (Apple)	N	Y	Y
AOL software	N	Y	Y
Modems (serial - any model)	N	Y	Y

### **Compatibility List for Mac OS - Notes**

---

n/a

n/a

---





## 7.1.c - Configuration Examples for Mac OS -

The following is a list of available configuration examples for Mac OS. These example provide step-by-step instructions on configuring select serial devices. The current example available are:

- [Palm Desktop](#)

For the latest version of this list, please visit our web site at: <http://www.keyspan.com>

For the configuration examples for other operating system (ie Mac OS X, Windows, etc.), please refer to the user manual for that platform or visit our web site at: <http://www.keyspan.com>



## 7.1.c.01 - Palm Desktop

### Before you begin...

This Configuration Example assumes that you have already done the following:

1. installed the Keyspan serial port *hardware* and *software*
2. installed the Palm Desktop *software*
3. connected the Palm Serial Cradle *hardware* to a Keyspan serial port

If you have not performed any of the steps mentioned above, please do so before proceeding.

---

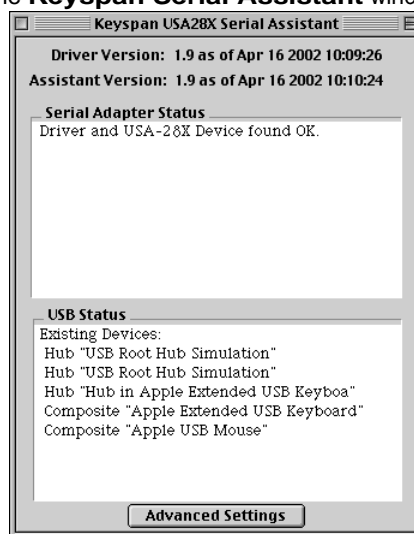
### Step 1 - Check the Keyspan Serial Assistant

---

Before proceeding, you should check to see if the Keyspan serial port is installed correctly.

To do this, open the [Keyspan Serial Assistant](#) (located in Control Panels). When you open the [Keyspan Serial Assistant](#), you will see a window similar to the one shown below:

the **Keyspan Serial Assistant** window



If your Keyspan hardware and software are installed correctly, the '**Serial Adapter Status**' text box will report 'Driver and USA-xxx Device found OK' or '...Renumerating...Done'.

If you see either of these messages, proceed to **Step 2**. If you do not receive either of these messages, proceed [Problem Solving](#) section in this manual.



---

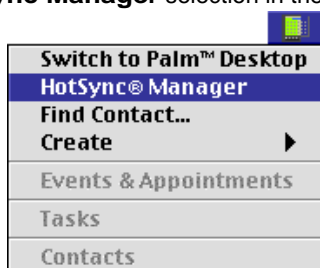
### Step 2 - Open the HotSync® Manager application

---

Before you can begin to HotSync your Palm, you must access and configure the HotSync® Manager application. The HotSync Manager is the program that manages the serial communication between your Palm and your computer.

Open the HotSync® Manager application by double clicking the HotSync® Manager application icon in your Palm folder or by selecting the HotSync® Manager selection in the Palm menu (as shown below).

the **HotSync Manager** selection in the Palm menu



Once the HotSync® Manager application is opened, you will be presented with the HotSync Software Setup window.

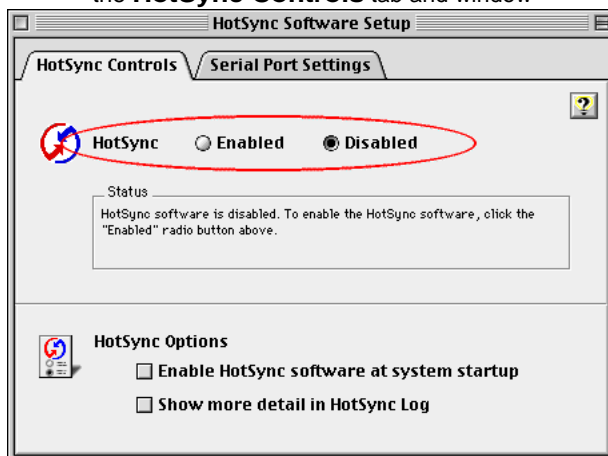
---

### Step 3 - Configure the HotSync Software Setup window

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In the HotSync Software Setup window, click on the **HotSync Controls** tab at the top of the window. This will display the HotSync Controls options.

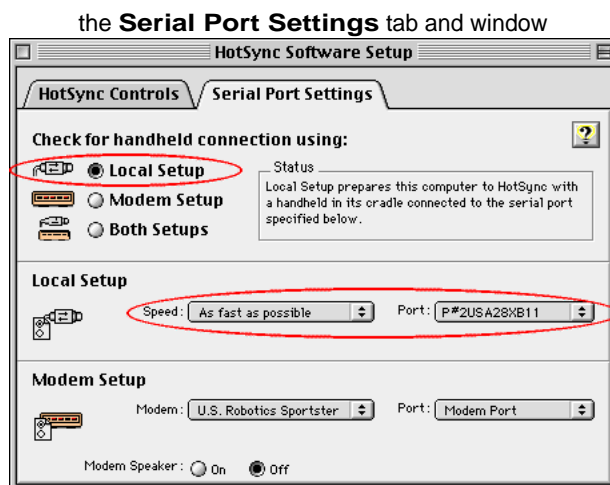
the **HotSync Controls** tab and window





## Keyspan:Mini Port Replicator for Mac OS-v2.6 User Manual

Click on the **Disabled** radio button to temporarily turn off HotSync monitoring. Then click on the Serial Port Settings tab at the top of the HotSync Software Setup window. This will display the serial port options.



In the Serial Port Settings tab, select either the **Local Setup** or **Both Setups** radio button. This tells the HotSync® Manager application to monitor any HotSync activity on a serial port.

Also, in the Local Setup section in the Serial Port Settings tab, select the **Keyspan port** that your Palm Organizer is connected to in the port popup menu. This tells the HotSync® Manager application to monitor the port on your Keyspan serial adapter.

**Please note:** The name(s) of your Keyspan serial port(s) vary from Keyspan product to product. Please check the **Capabilities** section in your Keyspan product's user manual for the specific port names.

Once you've made the selections mentioned above, click on the HotSync Controls tab at the top of the HotSync Software Setup window then select the Enabled button.

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### Step 4 - HotSync your Palm Organizer

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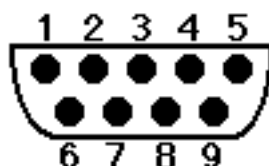
Palm Software configuration is now complete. To initiate a 'HotSync' session, place your Palm Organizer in its cradle and then press the HotSync button on the cradle. Your Palm Organizer will now "HotSync."



## 7.1.d - Serial Port Pin Outs

The pin assignments for the Keyspan Mini Port Replicator's male DB9 port are illustrated below:

Keyspan Mini Port Replicator's  
**male DB9 port**



<u>Pin</u>	<u>Name</u>	<u>Signal Designation</u>
1	DCD	Data Carrier Detect (Input)
2	RX	Received Data (Input)
3	TX	Transmitted Data (Output)
4	DTR	Data Terminal Ready (Output)
5	GND	Ground
6	DSR	Data Set Ready (Input)
7	RTS	Request To Send (Output)
8	CTS	Clear To Send (Input)
9	RI	Ring Indicator (Input)

In order to ensure compliance with emission specifications, cables should be shielded using braided shields and metal hoods with complete 100% contact between the shields and hoods.

## External Loopback Connector Information

The [Keyspan Serial Assistant](#) allows you to perform two types of loopback tests - internal and external. The external test requires the use of a special loopback connector. This connector requires a "DB9 Female Loopback plug" with the following wiring:

<u>Pin(s)</u>	<u>Wired to</u>	<u>Pin(s)</u>
1	<->	4,8
2	<->	3
6	<->	7,9



### 7.1.e - LED Behavior

The Keyspan Mini Port Replicator part number **UPSH-112** comes equipped with LED lights that reports the status of the Keyspan adapter *USB hardware* and its ports.

The following table shows all of the possible states of these LED light and what they mean:

Name	Color	State	Significance
<b>Power</b>	<b>Red</b>	Off	The Keyspan adapter is not connected or not receiving power from your computer
		On	The Keyspan adapter is connected and is receiving power from your computer
<b>USB1/ USB2</b>	<b>Green</b>	On	The Keyspan USB Hub port is working properly.
<b>Serial</b>	<b>Green</b>	On (Blinking Slow)	The Keyspan serial port software and hardware are working properly. The Keyspan serial port is available for use.
		On (Solid)	The Keyspan serial port is ' <b>in use</b> ' by an application on your computer and is ready to send and receive data to and from your serial device.
		On (Blinking Fast)	The Keyspan serial port is sending and/or receiving data to and from the attached serial device
<b>Printer</b>	<b>Green</b>	On	The Keyspan printer port is working properly.



## 7.1.x - Notices

### Notices

#### United States FCC

#### DECLARATION OF CONFORMITY

We, InnoSys Incorporated at  
3095 Richmond Parkway, Suite 207  
Richmond, CA 94806 USA  
(510) 222-7717

declare under our sole responsibility that the

KEYSPAN Mini Port Replicator, Model **UPSH-112**

complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**CAUTION:** Changes or modifications to the Mini Port Replicator not expressly approved by InnoSys Incorporated could void the user's authority to operate this equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult InnoSys Incorporated or an experienced radio/TV technician for help.

**(continued on next page...)**



## **CE MARK DECLARATION OF CONFORMITY**

(According to EN 45014)

Manufacturer's Name and Address

InnoSys Incorporated  
3095 Richmond Parkway, Suite 207  
Richmond, CA 94806

Declares that the product:

Product Name: KEYSpan Mini Port Replicator  
Model Number: UPSH-112  
Conforms to the following Product Specifications:

EN 55022: 1998 Class B  
EN 55024: 1998

following the provisions of the Electromagnetic Compatibility Directive.

Mike Ridenhour, Richmond, CA, USA,  
President, June, 2002

## **Canada Digital Apparatus EMI Standard**

This Class B digital apparatus meets all the requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

## **VCCI**

Voluntary Control Council for Interference from Information Technology Equipment

### **Class B ITE**

<p>この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスB情報技術装置です。この装置は、家庭環境で使用することを目的としています。この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。</p> <p>取扱説明書に従って正しい取り扱いをして下さい。</p>
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**(continued on next page...)**





## Keyspan:Mini Port Replicator for Mac OS-v2.6 User Manual

Translation:

This is a Class B product based on the standard of the Voluntary Control Council for Interference from Information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

### **Australia/New Zealand**

This device complies with AS/NZS 3548 Class B limits for the operation of Information Technology Equipment.

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## **7.1.y - Keyspan Warranty Information**

### **KEYSPAN Software License Agreement and Limited Warranty**

#### **Definitions**

The following definitions apply to the terms as they appear in this agreement.

- **KEYSPAN** means KEYSPAN, a division of InnoSys Incorporated.
- **Software** means the computer program contained in this package, and all updates to the computer program. The term also includes all copies of any part of the computer program.
- **Documentation** means the on-disk user's manual(s) as well as printed materials accompanying the Software.
- **Product** means the Software and Documentation

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## Keyspan:Mini Port Replicator for Mac OS-v2.6 User Manual

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Keyspan,  
a division of InnoSys, Inc.  
3095 Richmond Pkwy, Ste. 207  
Richmond CA 94806



## **7.1.z - Support Information**

### **Contacting Support**

If you require assistance with any Keyspan product, you may contact us by one of the following ways:

- **web/email:**            <http://www.keyspan.com/support/>  
(Monday through Friday: 9 am to 5 pm Pacific)
- **fax:**                    +1.510.222.0323  
(Monday through Friday: 9 am to 5 pm Pacific)
- **telephone :**            +1.510.222.8802  
(**tech support**)        (Monday through Friday: 9 am to 5 pm Pacific)

### **International Support Options**

If you live outside of the United States and require assistance with your Keyspan product, please contact the Keyspan's distributor in your country for technical support in your language. For a list of Keyspan's international distributors, please visit our international web page at:

<http://www.keyspan.com/international/>